L Number	Hits	Search Text	DB	Time stamp
-	80	703/3.ccor.	USPAT; US-PGPUB	2004/10/25 09:17
-	82	703/4.ccor.	USPAT; US-PGPUB	2004/10/25 09:06
-	8	(("6528799") or ("6469793") or ("6177218") or ("5891605") or ("5596413") or ("5654540") or ("5631721") or ("5684566")).PN.	USPAT; US-PGPUB	2004/10/25 16:55
-	1096	kalman and estimator	USPAT; US-PGPUB	2004/10/25 09:22
-	12	(kalman and estimator) and (lithography photolithography)	USPAT; US-PGPUB	2004/10/25 14:57
-	1467	kalman and detector	USPAT; US-PGPUB	2004/10/25 09:22
-	26	(kalman and detector) and (lithography photolithography)	USPAT; US-PGPUB	2004/10/25 09:56
-	17	((kalman and detector) and (lithography photolithography)) and @ad<=20010829	USPAT; US-PGPUB	2004/10/25 09:55
-	8385	scalpel	USPAT; US-PGPUB	2004/10/25 09:55
-	3	(scalpel and (lithography photolithography)) and kalman	USPAT; US-PGPUB	2004/10/25 12:12
-	63	700/30.ccor.	USPAT; US-PGPUB	2004/10/25 09:58
-	1	6609036.URPN.	USPAT	2004/10/25 10:17
-	12	("5115391" | "5654907" | "5682309" | "5687077" | "5865665" | "5918200" | "6092033" | "6163730" | "6285971" | "6519498" | "6584369" | "6609036" | "2002/0026249").PN.	USPAT	2004/10/25 10:17
-	504	scalpel and wafer	USPAT; US-PGPUB	2004/10/26 10:19
-	1	(scalpel and wafer) and kalman	USPAT; US-PGPUB	2004/10/25 12:52
-	276	703/13.ccor.	USPAT; US-PGPUB	2004/10/25 12:53
-	218	708/300.ccor.	USPAT; US-PGPUB	2004/10/26 10:21
-	524	adaptive same kalman	USPAT; US-PGPUB	2004/10/26 11:08
-	2	(adaptive same kalman) and scalpel	USPAT; US-PGPUB	2004/10/26 10:23
-	4	(adaptive same kalman) and (lithography photolithography)	USPAT; US-PGPUB	2004/10/26 10:24
-	259	scalpel and (lithography photolithography)	USPAT; US-PGPUB	2004/10/26 11:08
-	71	adaptive adj kalman	USPAT; US-PGPUB	2004/10/26 11:08
-	1	(adaptive adj kalman) and (lithography photolithography)	USPAT; US-PGPUB	2004/10/26 11:09
-	52	(adaptive adj kalman) and model	USPAT; US-PGPUB	2004/10/26 11:09
-	26	(adaptive adj kalman) and strength	USPAT; US-PGPUB	2004/10/26 11:10
-	13	((adaptive adj kalman) and strength) and @ad<=20010226	USPAT; US-PGPUB	2004/10/26 11:11
-	660	430/30.ccor.	USPAT; US-PGPUB	2004/10/29 12:33

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1 **Etch profile control of high-aspect ratio deep submicrometer α-Si gate etch**
Hyun-Mog Park; Grimard, D.S.; Grizzle, J.W.; Terry, F.L., Jr.;
Semiconductor Manufacturing, IEEE Transactions on , Volume: 14 , Issue: 3 , Aug. 2001
Pages:242 - 254

[Abstract] [PDF Full-Text (264 KB)] IEEE JNL

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2 **Subject Index**

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Pages:1864 - 1902

[Abstract] [PDF Full-Text (282 KB)] IEEE JNL

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3 **Shape-based optimal estimation and design of curve evolution processes with application to plasma etching**
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6 **Time-frequency formulation, design, and implementation of time-varying optimal filters for signal estimation**
Hlawatsch, F.; Matz, G.; Kirchauer, H.; Kozek, W.;
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7 **Adaptive optimization of run-to-run controllers: the EWMA example**
Patel, N.S.; Jenkins, S.T.;
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Pages:99 - 102

[Abstract] [PDF Full-Text (188 KB)] **IEEE JNL**

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10 **Robustifying nonlinear systems using high-order neural network controllers**
Rovithakis, G.A.;
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13 **Optimal seismic deconvolution: distributed algorithms**
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[Abstract] [PDF Full-Text (952 KB)] **IEEE JNL**

15 **Chaos in MEMS, parameter estimation and its potential application**
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18 **Control of photoresist properties: a Kalman filter based approach**
Palmer, E.; Wei Pen; Spanos, C.J.;
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1 **Limits of lithography**
Harriott, L.R.;
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2 **Flexible polyimide-based intracortical electrode arrays with bioactive capability**
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3 **An integrated plasma equipment - feature scale model for the Bosch deep Si etch process**
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4 **History of optical trapping and manipulation of small-neutral particle, atoms, and molecules**
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5 **Simulation of Coulomb interactions in electron projection lithography using scattering contrast**
Yamashita, H.; Munro, E.; Rouse, J.; Nomura, E.; Kobinata, H.; Nakajima, K.; Nozue, H.;
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6 **Critical dimension issues for 200 mm electron projection masks**

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7 **Simulation of electron and ion beam optics for high throughput lithography**
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9 **Electron scattering and related phenomena in SCALPEL™**
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10 **A uniform, large-area thermionic cathode as a high emittance electron source for the SCALPEL(R) tool**
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12 **Grid-controlled 100-kV electron-beam source for SCALPEL [lithography]**
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13 **A new role for e-beam: electron projection**
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18 **Impact of high resolution lithography on IC mask design**
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19 **A history of the invention of the transistor and where it will lead us**
Brinkman, W.F.; Haggan, D.E.; Troutman, W.W.;
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1 **Asymptotic theory of greedy approximations to minimal k-point random graphs**
Hero, A.O., III.; Michel, O.J.J.;
Information Theory, IEEE Transactions on , Volume: 45 , Issue: 6 , Sept. 1999
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Randall B. Howard, Mark A. Gallagher, Kenneth W. Bauer, Peter S. Maybeck
December 1992 **Proceedings of the 24th conference on Winter simulation**

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2 Adaptive joint multiuser detection and channel estimation in multipath fading CDMA channels
Xiaodong Wang, H. Vincent Poor
November 1998 **Wireless Networks**, Volume 4 Issue 6

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The problem of joint multiuser detection and channel estimation in frequency-selective Rayleigh fading CDMA channels is considered. First the optimal multiuser detector for such channels is derived, which is seen to have a computational complexity exponential in the product of the number of users and the length of the transmitted data sequence. Two suboptimal detectors are then developed and analyzed, both of which employ decorrelating filters at the front-ends to eliminate the multiple-acc ...

3 A control-theoretic approach to flow control
S. Keshav
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

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This paper presents a control-theoretic approach to reactive flow control in networks that do not reserve bandwidth. We assume a round-robin-like queue service discipline in the output queues of the network's switches, and propose deterministic and stochastic models for a single conversation in a network of such switches. These models motivate the Packet-Pair rate probing technique, and a provably stable rate-based flow control scheme. A Kalman state estimator is derived from discrete-time state ...

4 The computation of optical flow
S. S. Beauchemin, J. L. Barron
September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3

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Two-dimensional image motion is the projection of the three-dimensional motion of objects, relative to a visual sensor, onto its image plane. Sequences of time-orderedimages allow the estimation of projected two-dimensional image motion as either instantaneous image velocities or discrete image displacements. These are usually called the optical flow field or the image velocity field. Provided that optical flow is a reliable approximation to two-dimensional ...

5 SCAAT: incremental tracking with incomplete information
Greg Welch, Gary Bishop
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

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Keywords: Kalman filter, autocalibration, calibration, delay, feature tracking, latency, sensor fusion, virtual environments tracking

6 A control-theoretic approach to flow control
Srinivasan Keshav
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols,** Volume 21 Issue 4
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7 Real-time estimation of the parameters of long-range dependence
Matthew Roughan, Darryl Veitch, Patrice Abry
August 2000 **IEEE/ACM Transactions on Networking (TON),** Volume 8 Issue 4
Full text available: pdf(237.43 KB) Additional Information: full citation, references, citings, index terms

Keywords: Hurst parameter, estimation, fractal, long-range dependence, on-line, real-time, self-similar, traffic modeling, wavelets

8 Subspace methods for blind joint channel estimation and multiuser detection in CDMA systems
Xiaodong Wang, H. Vincent Poor
January 2000 **Wireless Networks,** Volume 6 Issue 1
Full text available: pdf(249.64 KB) Additional Information: full citation, abstract, references, index terms

Recently developed subspace techniques for blind adaptive multiuser detection are briefly reviewed first. In particular, blind methods based on signal subspace tracking for adapting linear multiuser detectors in AWGN CDMA channels are considered, as well as extensions of these techniques to frequency selective fading channels, dispersive channels, and antenna array spatial processing. In addition, subspace‐based nonlinear adaptive techniques for robust blind multiuser detection in non& ...

9 Parameter identification methods for metamodeling simulations
Don Caughlin
November 1996 **Proceedings of the 28th conference on Winter simulation**
Full text available: pdf(714.50 KB) Additional Information: full citation, references

10 Improving static and dynamic registration in an optical see-through HMD
Ronald Azuma, Gary Bishop
July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**
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In Augmented Reality, see-through HMDs superimpose virtual 3D objects on the real world. This technology has the potential to enhance a user's perception and interaction with the real world. However, many Augmented Reality applications will not be accepted until we can accurately register virtual objects with their real counterparts. In previous systems, such registration was achieved only from a limited range of viewpoints, when the user kept his head still. This paper offers improved regi ...

Keywords: augmented reality, calibration, registration

11 3D position, attitude and shape input using video tracking of hands and lips
Andrew Blake, Michael Isard
July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**

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Recent developments in video-tracking allow the outlines of moving, natural objects in a video-camera input stream to be tracked live, at full video-rate. Previous systems have been available to do this for specially illuminated objects or for naturally illuminated but polyhedral objects. Other systems have been able to track nonpolyhedral objects in motion, in some cases from live video, but following only centroids or key-points rather than tracking whole curves. The system described here ...

12 Stochastic version of second-order (Newton-Raphson) optimization using only function measurements
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Ronald Azuma, Gary Bishop
September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**
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Keywords: HMD, augmented reality, delay compensation, spectral analysis

14 Ada Compiler Evaluation Capability (ACEC) data analysis: an overview
Air Force Systems Command
January 1990 **ACM SIGAda Ada Letters , Proceedings of the working group on Ada performance issues 1990**, Volume X Issue 3
Full text available: pdf(1.08 MB) Additional Information: full citation, references, index terms

15 Papers: ESW4: enhanced scheme for WWW computing in wireless communication environments
Stathes Hadjiefthymiades, Lazaros Merakos
October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings

Mobile computing is considered of major importance to the computing industry for the forthcoming years due to the progress in the wireless communications domain. In this paper, we present a proxy-based architecture, called ESW4, which manages to accelerate Web browsing in wireless CPNs. Proxy caches, maintained in base stations, are constantly relocated to accompany the roaming user. We discuss a cache management scheme involving the relocation of full caches to the most candidate cells but also ...

16 On hop-by-hop rate-based congestion control
Partho Pratim Mishra, Hemant Kanakia, Satish K. Tripathi
April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2
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17 Real-time APL prototype of a GPS system
Henry M. Beisner, Jack G. Rudd, Robert H. Benner
June 1996 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on Designing the future**, Volume 26 Issue 4
Full text available: pdf(822.15 KB) Additional Information: full citation, abstract, references, citings, index terms

The Global Positioning System (GPS) consists of a constellation of 24 high-altitude satellites with very accurate atomic clocks, along with a global network of satellite tracking stations and sophisticated ground processing stations, that together provide precise navigation coordinates to any user who possesses a small, readily available GPS receiver.The precision that is achieved depends on[1] the number of GPS satellites in view of the user and the geometries involved;[2] the design of the use ...

18 The ControlShell component-based real-time programming system, and its application to the Marsokhod Martian Rover
Stan Schneider, Vincent Chen, Jay Steele, Gerardo Pardo-Castellote
November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems,** Volume 30 Issue 11
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Real-time system software is notoriously hard to share and reuse. This paper walks through the methodology and application of ControlShell, a component-based programming system for real-time system software development. ControlShell combines graphical system-building tools, an execution-time configuration manager, a real-time matrix package, and an object name service into an integrated development environment. It targets complex systems that require on-line reconfiguration and strategic control ...

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Richard Hartley, Kenneth Welles, Michael Hartman, Paul Delano, Abhijit Chatterjee
March 1990 **Proceedings of the conference on European design automation**
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This paper introduces the (DIODES) system for the rapid prototyping of DSP electronic systems. DIODES merges silicon compiler and high-density interconnect technology with the goal of prototyping hardware systems as quickly as possible --- within one day. Working from a high-level algorithmic description of a DSP algorithm, DIODES will determine which chips from an inventory of specially designed chips are needed to implement the design. These chips are then placed on a prepared substrate and ro ...

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Randall B. Howard, Mark A. Gallagher, Kenneth W. Bauer, Peter S. Maybeck
December 1992 **Proceedings of the 24th conference on Winter simulation**
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1 Smoothing Of Noisy Ar Signals Using An **Adaptive Kalman Filter** Gerhard Doblinger Institut Fur
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atomic layer. Patterning is performed using nano-**lithography** techniques such as electron and ion-beam
soon reach a cross-over point where the size of the **model**led or simulated physical system, at the atomistic
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this required small (5m5m) electron beam **lithography** (EBL) defined mesas. Extrinsic voltage drops
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that combines electroplating with conventional **lithography**, materials, and equipment. A microactuator
the rigid body. Therefore, the resulting mechanical **model** becomes that of a simple cantilever beam which is
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manufacturing, e.g. LiGA technology (deep X-ray **lithography**, electroforming and molding) 1-3] and sample
2525 mm 2 has been freshly cleaved with a **scalpel** in order to obtain an adsorbate-free surface
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